

From: <Don\_Evans@murphyoilcorp.com>  
 To: "Heather Wright" <Heather.Wright@erg.com>  
 Date: 7/21/2008 10:31 AM  
 Subject: Re: question about Murphy's Gas STAR report

Heather,

Actually, the volumes stated below are for the entire 3 to 4 year period.

Medusa (MC 582): 240,000 mcf from late 2003 through 2007 (approx 80,000 mcf/yr)

Front Runner (GC 338): 175,000 mcf from late 2004 through 2007 (approx 45,000 mcf/yr).

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"Heather Wright"  
 <Heather.Wright@e  
 rg.com>

To  
 <Don\_Evans@murphyoilcorp.com>  
 07/21/2008 08:15 AM cc

Subject  
 Re: question about Murphy's Gas  
 STAR report

Hw  
 VRUs at Front Runner  
 facility.

2004 40,000 mcf  
 2005 45,000 mcf  
 2006 45,000 mcf  
 2007 45,000 mcf

175,000 mcf

VRUs at Medusa facility

2003 48,000  
 2004 48,000  
 2005 48,000  
 2006 48,000  
 2007 48,000

240,000 mcf

Hi Don,  
 Thank you for the prompt response. To clarify, the emissions reductions for 2004 through 2007 are from the VRUs installed at the Front Runner facility. It appears that each year since installation, these VRUs are estimated to reduction emissions by 240,000 Mcf a year. Is this correct?

For the VRU installed at the Medusa facility in 2003, there was a reduction of 175,000 Mcf that year. Can I assume that 175,000 Mcf of methane emissions reductions was being realized at this facility in subsequent years in 2004, 2005, 2006, and 2007? Please let me know.

Thank you,  
 Heather

>>> <Don\_Evans@murphyoilcorp.com> 7/18/2008 10:23 AM >>>

Heather,

The VRUs were installed in 2003 for the "Medusa" facility and in 2004 for the "Front Runner" facility. We also have a new facility that will be installed deepwater offshore in the Gulf of Mexico later this year which

also will have a VRU in operation when it comes online.

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"Heather Wright"  
<Heather.Wright@e  
rg.com>  
To  
<Don\_evans@murphyoilcorp.com>  
07/16/2008 06:15 PM  
cc  
Subject  
question about Murphy's Gas STAR  
report

Hi Don,

We are reviewing Murphy's 2007 Natural Gas STAR report submitted back in May. I apologize it has taken me so long to get in touch. I see that your reported the installation of two VRUs with a resulting emissions reduction in 2007 of 240,000 Mcf. Were these units installed in 2007, or in 2003 and 2004? It looks like they may have been installed in 2003 and 2004 from the information that you supplied in the previous years activities table. Please verify. Alternatively, if these were all new installations, one new VRU in 2003, two new VRUs in 2004, 2 new VRUs in 2005, etc. just let me know. We want to ensure that we are correctly capturing your activities and reductions in our database.

If you prefer to discuss by phone, please give me a call at the number below.

Thank you,  
Heather Wright  
ERG for EPA's Natural Gas STAR Program

**Production - Natural Gas STAR Annual Report - 2007**

**Company Information**

Company Name: **Murphy Exploration and Production Company**  
Gas STAR Contact: **Don Evans**  
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**Natural Gas**

*Submitted  
5/8/08  
online*

*✓ iSTAR - RL 7/3/08  
✓ QA/QC - DF 7/15/08  
✓ Access -*

Company Information Updated: No

**Activities Reported**

BMP1: No BMP2: ~~Yes~~ <sup>NO</sup> BMP3: Yes

Total Methane Emission Reductions Reported This Year: 240,000

Previous Years' Activities Reported: Yes

**Period Covered by Report**

From: **01/01/2007**

To: **12/31/2007**

**Additional Comments**

BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

MC582/GC338 ✓

B. Description of PRO

Please specify the technology or practice that was implemented:

Installing VRUs on crude oil storage tanks (10 years) ✓

Please describe how your company implemented this PRO:

VRUs installed on 2 offshore production facilities prior to startup. ✓

C. Level of Implementation

Number of units installed: 2 units ✓

D. Methane Emissions Reduction

Methane Emissions Reduction: 240,000 Mcf/year ✓

Basis for the emissions reduction estimate: Other ✓

See email - total reduction over several yrs.

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

✓ Multi-year ✓

If Multi-year:

- ✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

## Production - Natural Gas STAR Annual Report - 2007

### F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

### G. Total Value of Gas Saved

Value of Gas Saved: \$ 1,680,000 ✓

\$ / Mcf used: \$ 7.00

### H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: Will continue to capture CH<sub>4</sub> ✓  
emissions through life of facility.

### Previous Years' Activities

Year	Frequency of practice or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)
2003 ✓	1 ✓		175,000 ✓	
2004 ✓	2 ✓		240,000 ✓	
2005 ✓	2 ✓		240,000 ✓	
2006 ✓	2 ✓		240,000 ✓	

\* Total cost of practice/activity (including equipment and labor)

### Additional Comments

VRU captures all hydrocarbon emissions from the oil storage tanks on facilities.

See email -  
total  
reductions  
over several  
years

- Murphy Exploration and Production Company
- Additional Accomplishments